

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/002478

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G05B19/409 G05B19/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 90/00273 A (TRAUB AG) 11 January 1990 (1990-01-11) figures 3-5 page 9, paragraph 2 - page 12, paragraph 2	1-10
X	US 6 236 399 B1 (NISHIYAMA KIYOTAKA ET AL) 22 May 2001 (2001-05-22) figures 5,12-21 column 5, line 4 - line 65 column 8, line 14 - line 44 column 10, line 11 - column 12, line 55	1-10
A	EP 0 858 016 A (HEIDENHAIN GMBH DR JOHANNES) 12 August 1998 (1998-08-12) figures 1,2 column 3, line 48 - column 7, line 56 ----- -/--	1-10

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

14 October 2004

Date of mailing of the international search report

21/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Cîrîc, G

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/002478

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 195 15 198 A (SIEMENS AG) 31 October 1996 (1996-10-31) figures 3-5 column 4, line 28 - column 5, line 25 -----	1,7
A	DE 100 56 731 A (BOSCH GMBH. ROBERT) 23 May 2002 (2002-05-23) the whole document -----	1

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/EP2004/002478

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9000273	A	11-01-1990	AT 119695 T DE 58909091 D1 WO 9000273 A1 EP 0378649 A1	15-03-1995 13-04-1995 11-01-1990 25-07-1990
US 6236399	B1	22-05-2001	JP 10240340 A DE 69824710 D1 EP 1260889 A1 EP 1260890 A1 EP 0970408 A1 WO 9838552 A1 TW 400256 B US 2001012021 A1	11-09-1998 29-07-2004 27-11-2002 27-11-2002 12-01-2000 03-09-1998 01-08-2000 09-08-2001
EP 0858016	A	12-08-1998	DE 19704416 A1 DE 59800809 D1 EP 0858016 A1 US 6389325 B1	20-08-1998 12-07-2001 12-08-1998 14-05-2002
DE 19515198	A	31-10-1996	DE 19515198 A1 CN 1159018 A	31-10-1996 10-09-1997
DE 10056731	A	23-05-2002	DE 10056731 A1 AU 1691402 A WO 0241089 A1	23-05-2002 27-05-2002 23-05-2002